



SDS #: 839.01

Revision Date: March 21, 2014

Universal Indicator Solution Rainbow Acid Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Universal Indicator Solution Rainbow Acid

Signal Word
WARNING

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10462

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).



Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Alizarin	72-48-0	C ₁₄ H ₈ O ₄	240.21	<0.1%>
Bromcresol green, sodium salt	62625-32-5	C ₂₁ H ₁₃ Br ₄ O ₅ SNa	720.05	0.1%
Bromphenol blue, sodium salt	34725-61-6	C ₁₉ H ₉ Br ₄ O ₅ SNa	691.67	0.1%
Phenol red, sodium salt	34487-61-1	C ₁₉ H ₁₃ NaO ₅ S	376.36	<0.1%>
Thymol blue, sodium salt	62625-21-2	C ₂₇ H ₂₉ NaO ₅ S	488.58	0.1%
Ethyl alcohol, denatured	64-17-5	C ₂ H ₅ OH	46.07	38%
Water	7732-18-5	H ₂ O	18.00	62%

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Class IC flammable liquid due to ethyl alcohol content.

NFPA Code

Flash point: 29 °C

H-1

When heated, releases flammable fumes.

F-3

In case of fire: Use a tri-class dry chemical fire extinguisher.

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains.

Keep container tightly closed and cool (P233+P235). Use explosion-proof electrical and ventilating equipment (P241).

Take precautionary measures against static discharge (P243).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

The color of this solution depends on the pH of the pH indicator.
solution.

Alcohol odor.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with open flame, sparks or other sources of ignition.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye irritation, nausea, dizziness,
headache.ORL-RAT LD₅₀: 7060 mg/kg (as ethyl alcohol)IHL-RAT LC₅₀: 20,000 ppm/10H (as ethyl alcohol)Chronic effects: Liver damage, reproductive,
teratogenic effects, carcinogen.SKN-RBT LD₅₀: N.A.Target organs: Eyes, skin, central nervous system,
liver, reproductive system.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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